

- El-Mezayen, A.M. (1983):** Geology and petrology of the basement rocks in El-Fawekhir area, (EL-Fawkhir ophiolites) Control Eastern Desert, Egypt Ph.D Thesis Fac of Sci Al Azhar Univ. Cairo Egypt.
- El-Nisr, S.A., Moghazi, A.M. and El-Sayed, M.M. (1996):** Geochemical variations and tectonic significance of the mafic rocks on the Allaqi-Haimur-Qulieb area, South Eastern Desert, Egypt. Jour. Geol., V. 40(2), P. 555-586.
- El Ramly, M.F. (1972):** A new geological map for the basement rocks in the Eastern and Southwestern Desert of Egypt. Ann. Geol. Surv. Egypt., V. 11, P. 1-18.
- El Ramly, M.F; Greiling, R.O.; Kroner, A. and Rashwan, A.A. (1984):** On the tectonic evolution of the Wadi Hafafit area and environs, Eastern Desert of Egypt". Bull Fac. Earth Science king Abdelaziz univ., Geddah, V.6, P. 113-126.
- El-Sharkawy, M.A. and EC- Baoumi, R.M. (1979):** The ophiolites of wadi Ghadir area Eastern Desert Egypt. Ann. Geol. Surv. Egypt, V. 1, P. 125-135.
- Fleck, R.J.; W.R. Greenwood; D.G. Hadly; R.E. Anderson and D. L. Schmidt (1980):** Rubidium-strontium geochronology and plate tectonic evolution of the southern part of the Arabian Shield. U.S. Geol. Surv. Prof. Paper 1131, 38p.
- Floyd, P.A. (1984);** Geochemical characteristics and composition of the basic rocks of the Fizaed complex and the basaltic caucuses within the Hercynian trough of SW England, J. Geol. Soc. London, V. 141, P.61-70.
- Fullager, P.D. and Geenberg, J.K. (1978):** Egyptian younger granites. A single period of plutonism, Labs. I.A. La. Ser V. 4, P. 62-63.

- Garson, M.S. and Shalaby, I.M. (1976):** Precambrian-Lower Proterozoic plate-tectonics and metallogenesis in the Red Sea region. In Geol. Assoc. Canada, Spec. P. No. 14, P. 573-596.
- Gass, I.G. (1979):** Evolutionary model for the Pan-African crystalline basement In: Tahoun, S.A.(ed.), Evolution and mineralization of the Arabian-Nubian Shield. Inst. Geol., (Jeddah), Bull. 3, Pergamon Press, V. 1, P.11-20.
- Gass, I.G. (1977b):** The evolution of the Pan-African crystalline basement in NE African and Arabia. Jour. Geol. Soc. London, V. 134, P. 129-138.
- Gass, I.G. (1981):** Pan-African (upper proterozoic) plate tectonic of the Arabian-Nubian Shield. In: Kroner, A. (ed) Precambrian plate-Tectonic, Elsevier, Amsterdam, 387-405.
- Gass, I.G. (1982):** Upper Proterozoic (Pan African) calc-alkaline magmatism in northeastern Africa and Arabia. In: Thrope, R.S. (ed.) Andesites and related rocks. Wiley and Sons, Chichester, New York. P. 591-609.
- Ghanem, M. (1972):** Geology of wadi Hodein area. Ann. Geol surv. Egypt, V.2, P. 199 – 214.
- Greenberg, J.K. (1981):** Characteristics and origin of Egyptian younger granites. Summary. Bull. Geol. Soc. Amer. PartI, V. 92, P. 224-232.
- Greenwood, W.R. (1976):** Late proterozoic cratonization in south western Arabia. Philosophical transactions of the Royal Society of London, A. 280: 517-527.
- Greiling, R. O., A. Kroner and M.F. El-Ramly (1984):** Structural interference patterns and their origin in the pan African basement of the south-Eastern Desert of Egypt. P. 401-412.
- Greiling, R.O. (1985):** Thrust tectonics in pan-African rocks of SE Egypt. Terra cognita, 5: 257.

- Greiling, R.O.; El Ramly, M.F., El Akhal, H., and Stern, R.J. (1987):** Tectonic evolution of the northern Red Sea margin as related to basement structure. *Tectonophysics*, V. 153, P. 179-191.
- Greiling, R.O., El Ramly, M.F., El Nakhal, H., and Stern, R.J. (1988):** Tectonic evolution of the northwestern Red Sea margin as related to basement structure. *Tectonophysics*, 153: 179-191.
- Hashad, A.H. and Hassan, M.A. (1979):** On the validity of an ensimatic island arc cratonization mode to the evolution of the Egyptian shield, *Geological Survey of Egypt. Annals*, V.O., P. 70-80.
- Hassan, M.A. and Hashad, A.H. (1990):** Precambrian of Egypt. In: Said, R. (ed). *The geology of Egypt*. Balkema, Rotterdam, P.201-245.
- Hume, W.F. (1934):** *Geology of Egypt*. V. II, Part I, The metamorphic rocks. *Geol. Surv. Egypt*, Cairo.
- Hunting Geology and Geophysics LTD (1967):** Assessment of the mineral potential of the Aswan Regional Planning of Aswan, P. 1-138.
- Hussein, A.A.; Ali, M.M. and El Ramly, M.F. (1982):** A proposed new classification of the granites of Egypt. In; Brousse, R. and Lamyeyre, J. (eds.) *Magmatology. Jour. Volcaol. Geotherm. Res.* V. 14, P. 187-198.
- Hutchinson, R. W. (1973):** Volcanogenic sulphide deposit and their metallogenic significance. *Econ. Geol.* 68, P. 1223-45.
- Hutchinson, R. W. (1980):** Massive base metal sulphide deposit as guides to tectonic evolution. In D. W. Strangway (1980), P. 659-81.

- Kroner, A., Reischmann, T.; Wust, H.T. and Rashwan, A.A. (1988):** LS there any pre-pan African basement in Egypt
In: El Gaby, S. and Greilling, R.O. (eds). The pan African of NE Africa and adjacent areas. Vieweg, Wiesbaden, 95-119.
- Le Maitre, R. W. (1976b):** The chemical variability of some igneous rocks jour petrography, V. 17, P. 589-637.
- Le Maitre, R. W. (1989):** Classification of igneous rocks and Glossary of terms. Black well Sci. Pub. London, P.193.
- Luca Nano.; Agnes Kontny.; Mohamed, F. Sadek and Reinhard, O. Greilling (2002):** Structural Evolution of Metavolcanics in the Surrounding of Gold-Mineralization At El-Beida, South Eastern Desert, Egypt. Annl. Geol. Surv. Egypt. V. XXV, P. 11-22.
- Maniar, P.D. and Piccoli, P.M. (1989):** Tectonic discriminations of granitoids. Geol. Soc. Amer. Bull., V.6, P. 129-198.
- Miyashero, A. (1974):** Volcanic rock series in island arcs and active continental margins. Am. J. Sci, Vol. 274, P.321-355.
- Miyashiro, A. and Shido, F. (1975):** Tholeiitic and calc-alkalic series in relation to the behaviours of titanium, vanadium, chromium and nickel. Amer. Jour. Sci., V. 275, P. 265-277.
- Miyashiro, A. (1978):** Nature of alkalic volcanic rocks series . Contrib . Meneral . Petro . J . 66 , P. 91-104
- Megahed, M.M. (2004):** Geology and Geochemistry of the basement rocks of Wadi Kreiga-Wadi Kurbiyay area, South Eastern Desert, Egypt. M.Sc. Thesis, Zagazig Univ. Benha Branch, P. 140.

- Ragab, A.I. (1987a):** On the petrogenesis of the Dokhan Volcanics of the North Eastern Deart of Egypt. M.E.R.C. Ain Shams Univeri. Earth Sci. Ser.1, 151-158. Cairo, Egypt.
- Ragab A.I. (1987b):** The pan-African basement of the Northern Segment of the Eastern Desert of Egyptiacrustal Evolution mode3l and its implication on techonostratigrahy and granite types. M.E.R.C. Ain Shams Univ. Earth Sci. Ser. 1: 1-18.
- Ragab, A. I. and El Alfy, Z. (1996):** Arc – arc collision model and its implications on a proposed classification of the Pan African rocks of the Eastern Desert of Egypt.. M. E. R. C. Ain Shams Univ., Earth Sci. Ser., 10, 89 – 101.
- Ries, A.C.; Shackleton, R.M.; Graham, R.H. and Fitches, W.R. (1983):** Pan-African structures, ophiolites and melange in the Eastern Desert of Egypt. A traverse at 26o N. Jour. Geol. Soc. London, V. 140, P. 75-95.
- Sabet, A.H. (1972):** On the stratigraphy of the basement rocks of Egypt, Ann. Geol. Surv. Egypt, V.2, P. 79-101.
- Sabet, A.H. El-Gaby and A.A. Zalata (1972):** Geology of the basement rocks in the northern parts of EL-Shayib and Safaga sheets, Annals Geol. Surv. Egypt, 2, 2, 111-128.
- Sadek, M. F. (1994):** Geology, geochemistry and structure of Gabal Muqsim area and environs, South-Eastrn Desert, Egypt. Ph. D. Thesis, Ain Shams Univ.
- Sangster, D. F. (1972):** Precambrian volcanogenic massive sulphide deposit in Canada: A review. Geol. Surv. Can., P. 72-82.
- Saunders, G.D. and Tarney, J. (1984):** Geochemistry of Basalts from a back-arc spreading center in the scotia-sea. Geochem. Cosmochem. Acta, V. 43, P. 555-572.